IN THE UNITED STATE PATENT AND TRADEMARK OFFICE

Applicant:

Jerome H. Lemelson

Art Unit:

2748

Robert D. Pedersen

Tracy D. Blake

Serial No.:

09/517,993

Filed:

March 3, 2000

Title:

Examiner:

Examiner:

Solution

Examiner:

Examiner:

Examiner:

A CENTER 2

Tancing Speech Intelligibility for the Heading System and Method for E

Impaired

Assistant Commissioner for Patents

Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants disclose the following references, which are listed on form PTO-1449 and attached to this document.

If the Examiner has any questions concerning the above matters, please contact applicant's undersigned attorney.

Respectfully submitted,

Jerome H. Lemelson Robert D. Pedersen Tracy D. Blake By their attorney

Dated:May 9, 2000

Certification Under 37 C.F.R. § 1.5

hereby certify that this paper is being sent this mail addressed to Commissioner of Patents and

'ashington, D.C. 2023 i. '

Douglas W) Rudy Reg. No. 26,989

DOUGLAS W. RUDY 14614 North Kierland Boulevard Suite 300 Scottsdale, Arizona 85254

(480) 948-3295

Form PTO-1449 (Modified)

Page 1 of 3

List of Patents and Publications For Applicant's Information Disclosure Statement Serial No.: 09/517,993

Applicants:

Jerome H. Lemelson, et al.

Filed: 3/3/00

Group: 2748

			U.S. PATE	ENT DOCUMENTS	<u> </u>		
Examiner		Document					Filing Date
<u>Initials</u>		<u>Number</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Subclass</u>	(if appropriate
	Α	4,025,721	05/24/77	Graupe, et al.	179	1 P	
	В	4,118,601	10/03/78	Yeap	179	1 D	
	C	4,461,025	07/17/84	Franklin	381	56	
	D	4,630,304	12/16/86	Borth, et al.	381	94	
	E	4,677,677	06/30/87	Eriksson	381	<i>7</i> 1	
	F	4,891,605	01/01/90	Tirkel	330	279	
	G	5,550,924	08/27/96	Helf, et al.	381	94	
	Н	5,581,495	12/03/96	Adkins, et al.	364	724.16	
			Foreign Pa	TENT DOCUMEN	NTS		
Examiner		Document					Translation
Initials		Number Number	<u>Date</u>	Country	<u>Class</u>	<u>Subclass</u>	Yes / No
		,					•
			0				
			От	THER ART			
		Author, Title	O1 , Date, Pertiner				
	A	Savioja, Laur	, Date, Pertiner	nt Pages, Etc. J./Takala, Tapio;			Acoustics with a
Examiner <u>Initials</u>	A B	Savioja, Laur D Finite Diffe Vogel, Durk	, Date, Pertiner i/Rinne, Timo erence Mesh"; F P./Schurer, F	nt Pages, Etc. J./Takala, Tapio; Helsinki University Hans/Slump, Cor	y of Techr nelis H./	iology. Herrmann,	Otto E.; "On the
		Savioja, Laur D Finite Diffe Vogel, Durk Realization o Rindel, Jens	, Date, Pertiner i/Rinne, Timo erence Mesh"; F P./Schurer, F f 3-D Binaural Holger; "Com	nt Pages, Etc. J./Takala, Tapio; Helsinki Universit Hans/Slump, Cor Audio Synthesis in Iputer Simulation	y of Techr nelis H./ n Real Tin	iology. Herrmann, ne"; <u>hans@nt</u>	Otto E.; "On the column of the
	В	Savioja, Laur D Finite Diffe Vogel, Durk Realization o Rindel, Jens Rooms"; <i>Acou</i> Schurer, H./	Date, Pertiner i/Rinne, Timo erence Mesh"; F P./Schurer, F f 3-D Binaural Holger; "Com ustics Australia, Slump, C. H.	nt Pages, Etc. J./Takala, Tapio; Helsinki University Hans/Slump, Cor Audio Synthesis in Iputer Simulation September 1995. / Hermann, O.E.	y of Techr nelis H./ n Real Tin Techniq .; "Digital	iology. Herrmann, ne"; <u>hans@nt</u> ues for Ac	Otto E.; "On the control of the cont
	В	Savioja, Laur D Finite Diffe Vogel, Durk Realization o Rindel, Jens Rooms"; <i>Acou</i> Schurer, H./ Distortion in Naylor, Grah	i/Rinne, Timo erence Mesh"; F P./Schurer, F f 3-D Binaural Holger; "Com ustics Australia, Slump, C. H. Loudspeakers'	It Pages, Etc. J./Takala, Tapio; Helsinki University Hans/Slump, Cor Audio Synthesis in Inputer Simulation September 1995. Hermann, O.E. Hans@nt.el.utwen Ins Holger; "Predi	y of Techr melis H./ n Real Tim Techniq ; "Digital te.nl icting Roc	nology. Herrmann, ne"; hans@nt ues for Acc Compensa	Otto E.; "On the cell utwente.nl oustical Design attion of Nonline cal Behaviour wi
	B C D	Savioja, Laur D Finite Diffe Vogel, Durk Realization o Rindel, Jens Rooms"; Acor Schurer, H./ Distortion in Naylor, Grah the ODEON	i/Rinne, Timo erence Mesh"; F P./Schurer, F f 3-D Binaural Holger; "Com ustics Australia, Slump, C. H. Loudspeakers' nam/Rindel, Je Computer Mod	It Pages, Etc. J./Takala, Tapio; 'Helsinki University Hans/Slump, Core Audio Synthesis in puter Simulation September 1995. Hermann, O.E. '; hans@nt.el.utwenths Holger; "Predicted as	y of Techr melis H./ n Real Tim Techniq ; "Digital te.nl icting Roc	nology. Herrmann, ne"; hans@nt ues for Acc Compensa	Otto E.; "On the celutwente.nl oustical Design attion of Nonline cal Behaviour wi
	B C D	Savioja, Laur D Finite Diffe Vogel, Durk Realization o Rindel, Jens Rooms"; Acou Schurer, H./ Distortion in Naylor, Grah the ODEON New Orleans	i/Rinne, Timo erence Mesh"; F P./Schurer, F f 3-D Binaural Holger; "Com ustics Australia, Slump, C. H. Loudspeakers' nam/Rindel, Je Computer Moo , November 19	nt Pages, Etc. J./Takala, Tapio; 'Helsinki University Hans/Slump, Corolling Audio Synthesis in puter Simulation September 1995. Hermann, O.E. '; hans@nt.el.utwenthesis Holger; "Predicted as 192.	y of Techr melis H./ n Real Tim Techniq ; "Digital te.nl icting Roc paper 3a	nology. Herrmann, ne"; hans@nt ues for Acc Compensa om Acoustic AA3 at the	Otto E.; "On the cell utwente.nl oustical Design ation of Nonline cal Behaviour wi
	B C D	Savioja, Laur D Finite Diffe Vogel, Durk Realization o Rindel, Jens Rooms"; Acou Schurer, H./ Distortion in Naylor, Grah the ODEON New Orleans Rindel, J.H.;	i/Rinne, Timo erence Mesh"; F P./Schurer, F f 3-D Binaural Holger; "Com estics Australia, Slump, C. H. Loudspeakers' am/Rindel, Je Computer Moo , November 19	It Pages, Etc. J./Takala, Tapio; 'Helsinki University Hans/Slump, Core Audio Synthesis in puter Simulation September 1995. Hermann, O.E. '; hans@nt.el.utwenths Holger; "Predicted as	y of Techr melis H./ n Real Tim Techniq ; "Digital te.nl icting Roc paper 3a.	nology. Herrmann, ne"; hans@nt ues for Acc Compensa om Acoustic AAA3 at the	Otto E.; "On the definition of Nonline cal Behaviour will all the design of Rooms

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance *and* not considered. Include copy of this form with next communication to applicants.

Form PTO-1449 (Modified)

List of Patents and Publications For Applicant's Information Disclosure Statement Page 2 of 3

Serial No.: 09/517,993

Applicants: Jerome H. Lemelson, et al.

Filed: 3/3/00

Group: 2748

		OTHER ART
Examiner		
<u>Initials</u>		Author, Title, Date, Pertinent Pages, Etc.
	G	Sankar, Ananth/Heck, Larry/Stolcke, Andreas;"Acoustic Modeling for the SRI Hub-4 Partitioned Evaluation Continuous Speech Recognition System; Speech Technology and Research Laboratory SRI International
	Н	Cohen, M./Rumelhart, D./Morgan, N./Franco, H./Abrash, V./Konig, Y., "Combining Neural Networks and Hidden Markov Models for Continuous Speech Recognition".
	Ιį	Mohri, M./Riley, M./Hindle, D./Ljolje, A./Pereira, F.; "Full Expansion of Context-Dependent Networks in Large Vocabulary Speech Recognition"; AT&T Labs Research (mohri, riley, dmh, alj, pereira)@research.att.com
•	J .	Cohen, M./Franco, H./Morgan, N./Rumelhart, D./Avrash, V./Konig, Y., "Integrating Neural Networks into Computer Speech Recognition Systems".
	K	Abrash, Victor; "Mixture Input Transformations for Adaptation of Hybrid Connectionist Speech Recognizers" SRI International; victor@speech.sri.com
	L	Heck, Larry/Sankar, Ananth; "Acoustic Clustering and Adaptation for Robust Speech Recognition"; SRI International; {heck,sankar}@speech.sri.com
	M	Stolcke, Andreas/Shriberg, Elizabeth; "Statistical Language Modeling for Speech Disfluencies"; SRI International; stolcke@speech.sri.com , eee@speech.sri.com
	N	Cole, Ronald A./Burnett, Daniel/Weatherill, Vince; "An Evaluation Guide for Emergent Technologies in Automatic Speech Recognition"; Center for Spoker Lanuage Understanding, Department of Computer Science and Engineering, Oregor Graduate Institute of Science & Technology, December 6, 1993.
	O	www.cscd.nwu.edu/public/ears/assistive; "Assistive Communicative Devices"; 11/16/99
	Ρ,	www.cscd.nwu.edu/public/ears/perforated; "Perforated Eardrum", 11/3/99
	\mathbf{Q}	www.cscd.nwu.edu/public/ears/hearloss; "Hearing Loss"; 11/4/99
	R	www.cscd.nwu.edu/public/ears/cochlear; "Cochlear Implant: A Device to Help the Dear Hear"; 11/3/99
	S .	www.cscd.nwu.edu/public/ears/earache: "Earache and Otitis Media:, 11/3/99
	T	www.cscd.nwu.edu/public/ears/cholesteatoma; "Choleasteatoma: A Serious Ear Condition"; 11/3/99
	U	www.cscd.nwu.edu/public/ears/otosclerosis; "Otosclerosis"; 11/3/99
	V	www.cscd.nwu.edu/public/balance/perilymph; "Perilymph Fistula"; 11/3/99
	W	www.cscd.nwu.edu/public/balance/acoustic; "Acoustic Neuroma"; 11/3/99
	X	www.cscd.nwu.edu/public/ears/noise; "Noise, Ears, and Hearing Protection"; 11/3/99
	Y	www.cscd.nwu.edu/public/ears/menieres/index; Meniere's Disease"; 11/3/99
	Z	www.cscd.nwu.edu/public/blanace/test; "Testing for Vestibular Disorders"; 11/3/99
	AA	www.utdallas.edu/~thib/rehabinfo/tohl; "Types of Hearing Loss"; 6/29/99
	BB	www.eos.ncsu.edu/bae/research/blaprojects/1998/asstdevice_98/hearing; "Communications Aids"; 11/16/99
Examiner:		Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with nex

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicants.

Form PTO-1449 (Modified)

List of Patents and Publications For Applicant's Information Disclosure Statement Page 3 of 3

Serial No.: 09/517,993

Applicants: Jerome H. Lemelson, et al.

Filed: 3/3/00

Group: 2748

OTHER ART					
		Official			
Examiner <u>Initials</u>		Author, Title, Date, Pertinent Pages, Etc.			
	CC	www.ama-assn.org/sci-pubs/sci-news/1998; "More Than 7 Million American Children Have Hearing Loss"; Science News Update, Week of April 8, 1998			
	DD	www.neuro.new.edu/programs/vestib/edu/hearing/cent_hearing; "Central Hearing Loss"; 11/3/99			
	EE	http://headwize.com/tech/anr_tech; "Active Noise Reduction Headphone Systems"; HeadWize Technical Papers; 11/22/99			
,	FF	www.askmar.com/askmar/Noise/Noise%20Effects/Noise; Suter, Alice H.; "Noise and Its Effects"; Administrative Conference of the United States; November 1991; 11/16/99			
,	GG	www.compsoc.man.ac.uk/~maniac/resource_web/harmony_central/eq: Harmony_Central Effects Explained: Equalization; 7/19/99			
	HH	www.cs.tut.fi/~ypsilon/80545/RoomAccoustics; "Room Accoustics"; 9/28/99			
	II	www.docshop.com/info/hearingloss; Lovering, Larry J.; "Hearing Loss: The Neglected Disorder", 7/15/99			
	IJ	www.boystown.org/feafgene.reg/fundamen; "Fundamentals of Hearing Part 1", 7/19/99			
	KK	www.audiologyawareness.com/hhelp/audiogrm; "How Do We Read and Audiogram"; The Audiology Awareness Campaign; 7/19/99			
	LL	http://audiorevolution.com/equip/theatermaster/index: "Enlightened Audio Designs Theater Master"; 1/5/2000			
	MM	www.mvblind.uni-linz.ac.at/mvb/research/voice/deliv; "The Voice Project", 6/28/99			

Examiner:	Date Considered: